## **CLAIMS**

- 1. A slowly digestible starch product, characterized in that the starch product has a swellable network, the linking points of which are formed by crystallites, and that the starch product has an initial hydrolysis rate (Ho) < 300%/h.
- 2. The starch product according to claim 1, characterized in that the starch product has a constant or nearly constant hydrolysis rate (Hc) for at least 0.25 h, in particular < 300%/h.
- 3. The starch product according to at least one of the preceding claims, characterized in that a portion of the starch product measuring > 20% is hydrolyzed at a constant or nearly constant hydrolysis rate (Hc).
- 4. The starch product according to at least one of the preceding claims, characterized in that the starch product has a swelling level (Q) ranging from 1.1-4 after swelled in water at room temperature.
- 5. The starch product according to at least one of the preceding claims, characterized in that the DSC melting point (Tp) of the crystallites measures > 70°C.
- 6. The starch product according to at least one of the preceding claims, characterized in that the starch product has a percentage of resistant starch ranging from 0-50%.
- 7. The starch product according to at least one of the preceding claims, characterized in that the starch product has 1-95% short-chain amylose, and in particular that the starch product has network-linking mixed crystallites consisting of this amylose and the basic starch.
- 8. A method for manufacturing a slowly digestible starch product, characterized in that the starch is at least partially gelatinized or at least partially plasticized, and, if necessary, a mixture of the at least

partially gelatinized or at least partially plasticized starch with a short-chain amylose is obtained, and the starch or starch mixture prepared in this way is conditioned, during which a starch network is set, and the resultant starch product has an initial hydrolysis rate (Ho) < 300%/h.

- 9. The starch product according to at least one of the preceding claims, characterized in that the starch product has at least one additive, in particular a percentage of soluble fibers.
- 10. The starch product according to at least one of the preceding claims, characterized in that the starch product is added to a food as an ingredient, in particular to a bar and the like, and/or is present as a tablet and/or food per se, in particular as a cereal or snack.

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No	Starch	SCA	Wo	Cond.	Р	ø	Н	£	tc	SD	Тр	RS
		[%]	[%]		[mm]		[%/h]	[%/h]	(h)	[%]	ြင့	[%]
WS 46-1	Corn	0	30	None	0.5	>10	1000	1000	0.08	0	*	-
WS 47-1	Corn	10	30	None	0.5	2.6	06	06	9.0	97	98	3
WS 48-1	Corn	20	30	None	0.5	2.2	55	55	0.7	94	105	9
WS 49-1	Corn	30	30	None	0.5	1.9	43	43	0.7	93	114	7
WS 46-2	Corn	0	30	1 h at 50°C	0.5	2.6	125	125	0.5	96	77	4
WS 47-2	Com	10	30	1 h at 50°C	0.5	1.9	47	47	0.9	95	103	5
WS 48-2	Corn	20	30	1 h at 50°C	0.5	1.4	28	28	1.7	93	111	7
WS 49-2	Corn	30	30	1 h at 50°C	0.5	1.3	22	22	2.5	92	117	8
WS 40-1	Potato	0	30	None	0.5	>10	1000	1000	0.08	0	*	1
WS 41-1	Potato	10	30	None	0.5	2.5	58	58	9.0	96	94	4
WS 42-1	Potato	20	30	None	0.5	1.7	33	33	1.7	95	104	2
WS 43-1	Potato	30	30	None	0.5	1.4	25	25	2.2	93	116	7
WS 40-2	Potato	0	30	1 h at 50°C	0.5	1.8	48	48	9.0	96	75	4
WS 41-2	Potato	10	30	1 h at 50°C	0.5	1.7	30	30	1.4	95	101	5
WS 42-2	Potato	20	30	1 h at 50°C	0.5	4.1	23	23	2	93	110	7
WS 43-2	Potato	30	30	1 h at 50°C	0.5	1.3	15	15	3.5	92	116	8
WS 55-1	Potato	20	36	1 h at 50°C	0.5	1.3	16	14	3.5	91	109	6
WS 55-2	Potato	20	36	1 h at 50°C	0.35	1.7	36	15	3	91	109	တ
WS 55-3	Potato	20	36	1 h at 50°C	0.2	1.9	54	16	3	93	109	7
WS 55-1	HA pea	20	25	1 h at 50°C	0.5	1.2	14	12	4	83	114	17
WS 55-2	HA pea	20	25	1 h at 50°C	0.35	1.3	26	13	2.5	84	114	16
WS 55-3	HA pea	20	25	1 h at 50°C	0.2	1.5	38	14	3	86	114	14

WS 69-1	HA pea	0	29	None	0.3	9	009	009	0.08	10	72	6
WS 69-2	HA pea	0	29	1 d at 25°C	0.3	3.1	200	200	0.3	89	77	7
WS 69-3	HA pea	0	29	1 h at 70°C	0.3	2	360	360	0.2	30	85	12
WS 69-4	HA pea	0	29	1 h at 90°C	0.3	4.5	330	330	0.2	35	105	12
WS 72-1	HA pea	5	29	None	0.3	2.9	200	12	2	06	86	10
WS 72-2	HA pea	5	29	1 d at 25°C	0.3	2.3	06	20	2.5	89	100	11
WS 72-3	HA pea	5	29	1 h at 70°C	0.3	2.2	80	20	2.5	89	104	11
WS 72-4	HA pea	5	29	1 h at 90°C	0.3	.2	70	22	2.5	89	111	11
WS 95-1	HA com	0	24	None	0.15	1.8	200			89	110	1
WS 95-2	HA corn	0	24	1 h at 70°C	0.15	1.5	70			87	118	13
WS 97-1	HA corn	10	35	None	0.15	1.5	89			86	118	14
WS 97-2	HA corn	10	35	1 h at 50°C	0.15	1.4	46			85	121	15
WS 98-1	HA corn	0	37	None	0.15	1.5	70			84	115	16
WS 98-2	HA corn	0	37	1 h at 40°C	0.15	1.3	32			82	118	18
Native cornstarch	Ę						64	64	9.0	97	72	3
Amylase-treated cornstarch	cornstarch						200	200	0.25	85	92	7
Novelose 330		,					270	270	5	20	131	52
White baguette							1000			0	*	1
Whole grain bread	ad						530			10	*	6
Rye whole r	meal					. = .	220			75	*	17
bread												

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HA pea	High-amylose content pea	Но	Initial hydrolysis rate
HA corn	starch	Нс	Constant hydrolysis rate
SCA	High-amylose content	Тс	Constant hydrolysis time
Wo	cornstarch	SD	Slowly digestible starch
Cond.	Short chain amylose, DP – 24	Тр	DSC melting point
d	Water content during	RS	Percentage of resistant
Q	cond./before drying	*	starch/fiber
	Conditioning		No crystallites
	Particle size		
	Swelling level		

Table 1